

1 What is claimed is:

2 1. A therapeutic apparatus for stimulating healing of a wound in mammals, comprising:

3 a porous pad which is permeable to fluids including a porous body having at least a partial
4 outer surface and an inner body, said outer surface being adapted for contact with a surface of
5 said wound with small first pores to enhance biocompatibility, said porous pad to be
6 introduced onto or into a wound so as to be in contact with said wound and with said outer
7 surface adjacent said wound and secured in said wound by a dressing cover for providing an
8 air-tight seal around said wound and said porous pad, wherein said inner body pores have a
9 greater diameter than said first pores;

10 a vacuum canister for collecting fluids sucked from said wound by a negative
11 pressure connected to said porous pad through a drainage tube;

12 a suction pump connected to said canister through a hose generating said negative
13 pressure to be applied to the wound; and

14 at least one filter being interposed between said canister and said pump.

15 2. The therapeutic apparatus of Claim 1 wherein said porous pad has an elongated
16 hole to accommodate said drainage tube.

17 3. The therapeutic apparatus of Claim 1 wherein said inner body of said porous pad
18 contains second pores of a vacuum compatible size.

19 4. The therapeutic apparatus of Claim 1 wherein said porous pad is fabricated from a
20 material selected from the group consisting of polyurethane foam and polyether foam.

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- 2 5. The therapeutic apparatus of Claim 1 wherein said outer surface of said porous pad
- 3 has first pores no larger than 100 microns in diameter.
- 4 6. The therapeutic apparatus of Claim 1 wherein said dressing cover is made from an
- 5 elastomeric material.
- 6 7. The therapeutic apparatus of Claim 1 further comprising an antimicrobial agent in
- 7 contact with said porous pad.
- 8 8. The therapeutic apparatus of Claim 1 wherein said porous pad is formed by
- 9 spraying a nontoxic chemical substance into said wound whereby said chemical substance
- 10 foams up to conform to the dimensions of said wound.
- 11 9. The therapeutic apparatus of Claim 4 wherein said first pores are formed by placing said
- 12 porous pad in a liquid coating material.
- 13 10. A porous wound pad for facilitating the healing of a wound in mammals
- 14 comprising a porous body having at least a partial outer surface and an inner body, said
- 15 outer surface being adapted for contact of a surface of said wound with small first pores
- 16 and material modifications to enhance biocompatibility, said porous pad to be introduced
- 17 into a wound with said outer surface adjacent said wound and secured in or on said
- 18 wound and secured in contact with said wound by a dressing cover for providing an air-
- 19 tight seal around said wound and said porous pad and wherein said inner body pores have
- 20 a greater diameter than said first pores.

1 11. The porous wound pad of Claim 10 wherein said pad is formed by
2 spraying a nontoxic chemical substance into said wound whereby said chemical substance
3 foams up to conform to the dimensions of said wound.
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